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~~Subcooling Explained! How to Easily Understand! Understanding Manual J - HVAC Essentials~~

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Operation and Troubleshooting!

Measuring Static Pressure on an Air
Handler for Airflow CFM!

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PMP Exam Brain-Dump Like a Boss @
The Test Center! - 7 minutes

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How to Calculate HVAC System BTU
capacity Heat Load Calculation HVAC
Full Explanation Simplified Hvac Formula
Cheat Sheet~~

SENSIBLE HEAT FORMULA

(Furnaces): $\text{BTU/hr.} = \text{Specific Heat} \times$
 $\text{Specific Density} \times 60 \text{ min./hr.} = \text{CFM}$
 $\times \Delta T \times 1.08$
 $\text{ENTHALPHY} =$
Sensible heat and Latent heat . TOTAL
HEAT FORMULA (for cooling,
humidifying or dehumidifying) $\text{BTU/hr.} =$
 $\text{Specific Density} \times 60 \text{ min./hr.} \times \text{CFM} \times$
 $\Delta H = 0.75 \times 60 \times \text{CFM} \times \Delta H$

HVACR FORMULAS

Cheat Sheet / Formulas / Calculations.

REMEMBER - check for flame

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interference when the fan comes on -
interference is an indication of a cracked
heat exchanger. Fuse - 1.25 times total
amperage of all the furnace components
and should be rated for time delay or slow
burn. HVAC Cheat Sheet - Google Sites:
Sign-in The HVAC cheat sheet you need.

Hvac Formula Cheat Sheet -
mage.gfolkdev.net

Hvac Formula Cheat Sheet Hvac Formula
Cheat Sheet HVACR FORMULAS
HVACR FORMULAS TON OF
REFRIGERATION - The amount of
heat required to melt a ton (2000 lbs) of ice
at 32 ° F 288,000 BTU/24 hr 12,000
BTU/hr APPROXIMATELY 2 inches
Hg (mercury) = 1 psi WORK = Force
(energy exerted) X Distance Example: A
150 lb man climbs a flight of stairs 100 ft
high

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Note: CO₂% is calculated based on the O₂% utilizing the following formula. (20.9 - %O₂) x Max CO₂ produced by fuel / 20.9. Nat Gas Max CO₂ = 11.9. LP Gas Max CO₂ = 13.9. Draft Measurements...

HVAC Cheat Sheet - HVAC TRAINING

Useful HVAC Formulas For conditions

other than standard air: Total Heat

(BTU/hr) = 4.5 x cfm x Δh (std. air)

Sensible Heat (BTU/hr) = 1.1 x cfm x Δt

(std. air) Latent Heat (BTU/hr) = 0.69 x

cfm x Δgr. (std. air) Other Formulas.

Total Heat (BTU/hr) = 500 x gpm x Δt

(water) GPM cooler = (24 x TONS) / Δt

(water)

Your Guide to HVAC Formulas - HVAC Training 101

Percent unbalance = (0.03636363636) x

100. Percent unbalance = 3.636363636%.

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Step Five – Square the unbalance percentage and multiply it by two to determine the percentage increase in winding temperature. This step allows your technician to determine the actual impact of this imbalance on the temperature of the motor.

HVAC Formulas - Calculations for the HVAC Industry in 2020

Useful HVAC Formulas. – $\text{BTU/hr} = 3.413 \times \text{watts} = \text{HP} \times 2546 = \text{Kg Cal} \times 3.97$. – $\text{HP (air)} = \text{cfm} \times \text{p (in.H}^2 \text{O)} / 6350 \times \text{Eff.}$ – $\text{HP (water)} = \text{gpm} \times \text{p (ft.)} / 3960 \times \text{Eff.}$ – $\text{Gal.} = \text{FT}^3 / 7.48 = 3.785 \text{ Liters} = 8.33 \text{ lb. (water)} = 231 \text{ in.}^3$. – $\text{Therm} = 100,000 \text{ BTU} = \text{MJ} / 105.5$. NOTE: Liter/sec is the proper SI term for liquid flow.

Useful HVAC Formulas - REA HVAC
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Useful HVAC Formulas. For conditions

other than standard air: Total Heat

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(water)

A Complete Guide To HVAC Formulas
Commonly Used HVAC Formulae and

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Conversions
Air Side Q Total = CFM x (h_i - h_f) x 4.5 Btuh
Q Sensible = CFM x (t_i - t_f) x 1.085 Btuh
Q Latent = CFM x (Gr_i - Gr_f) x .068 Btuh
Humidification = CFM x (Gr_f - Gr_i) / 1,555 lbs/hr
CFM = l/s x 2.12
Air Pressure Drop (in.

Commonly Used HVAC Formulae and Conversions

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SENSIBLE HEAT FORMULA (Furnaces): BTU/hr.
- Specific Heat X Specific Density X 60 min./hr. = X CFM X T .24 X .075 X 60 X CFM X T = 1.08 X CFM X T.
ENTHALPHY = Sensible heat and Latent heat .
TOTAL HEAT FORMULA (for cooling, humidifying or dehumidifying) BTU/hr. = Specific Density

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Excel Formulas and Functions For Dummies Cheat Sheet

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Total = CFM x (h i - h f) x 4.5 Btuh Q
Sensible = CFM x (t i - t f) x 1.085 Btuh

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Q Latent = CFM x (Gr i - Gr f) x.068
Btuh Humidification = CFM x (Gr f - Gr i) / 1,555 lbs/hr
CFM = l/s x 2.12
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The HVAC cheat sheet you need. Your home ' s HVAC system is probably the most important piece of equipment in your home. But do you know how it works? Or even what it stands for? Use this cheat sheet to make sure that you understand the basics about how your home ' s heating, cooling and ventilation system works. ...

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The HVAC cheat sheet you need. |

Region Energy

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catalog.drapp.com.ar • The measure of energy the HVAC system needs to add or remove from a space to provide the

desired level of comfort – Btu/h • Not

the . size. of the HVAC system – First

piece of information needed – 12,000

Btu/h = 1 Ton Cooling • Can be. highly

...

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pcibe-1.pledgecamp.com

PE Reference Guide (Mechanical HVAC & Refrigeration) www.energy350.com

Revised 10/18/14 Properties of Water

Latent Heat of Vaporization = 970 Btu/lb

1 lb = 7,000 grains density = 62.4 lb/ft³ 1

gallon = 8.3 lb 31 ft = 7.48 gallons Heat

Exchanger Calculations where h Heat

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Wheel Effectiveness Calculation S

$$\text{Efficiency} = (T_2 - T_1) / (T_3 - T_1)$$

PE Reference Guide (Mechanical HVAC & Refrigeration)

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